

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: SYSTEMS AND METHODS FOR IMPLEMENTING ROUTING PROTOCOLS AND ALGORITHMS FOR QUANTUM CRYPTOGRAPHIC KEY TRANSPORT, the specification of which ☐ was filed \_\_\_\_\_ and assigned Application Serial No. \_\_\_\_\_ or ☒ is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate or § 365(a) of any PCT international application(s), designating at least one country other than the United States, listed below and have also identified below any foreign application(s) for patent or inventor's certificate, or any PCT international application(s) having a filing date before that of the application(s) of which priority is claimed:

Country	Application Number	Date of Filing	Priority Claimed Under 35 U.S.C. 119
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Number	Date of Filing
60/456,815	March 21, 2003

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT international application(s) designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Page 2 of 3

Combined Declaration and Power of Attorney  
Attorney's Docket No. 03-4019

U.S. Applications		Status (Check One)		
U.S. Application Number	U.S. Filing Date	Patented	Pending	Abandoned

PCT Applications Designating the U.S.					
PCT Application No.	PCT Filing Date	U.S. Serial Number Assigned (if any)			

I hereby appoint the following attorney and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Leonard C. Suchyta, Registration No. 25,707; Adam T. Bernstein, Registration No. 36,746; and Joel Wall, Registration No. 25,648.

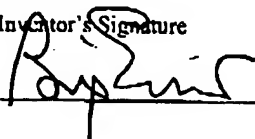
Please address all correspondence to:  
Verizon Corporate Services Group Inc.  
600 Hidden Ridge Drive  
Mail Code: HQF03H14  
Irving, Texas 75038  
Telephone No. (972) 718-4800

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Page 3 of 3

Combined Declaration and Power of Attorney  
Attorney's Docket No. 03-4019

Full Name of First Inventor David Spencer Pearson	Inventor's Signature	Date
Residence Bennington, Vermont	Country of Citizenship USA	
Post Office Address Shadowbrook Farm, 1601 Monument Avenue, Bennington, VT 05201		

Full Name of Second Inventor Brig Barnum Elliott	Inventor's Signature 	Date 8 MAR 04
Residence Arlington, Massachusetts	Country of Citizenship USA	
Post Office Address 25 Wollaston Avenue, Arlington, MA 02476		

MAR-09-2004 17:53

BBN TECHNOLOGIES

617 873 5386

P.04

Page 1 of 3

Attorney's Docket No. 03-4019

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: SYSTEMS AND METHODS FOR IMPLEMENTING ROUTING PROTOCOLS AND ALGORITHMS FOR QUANTUM CRYPTOGRAPHIC KEY TRANSPORT, the specification of which ☐ was filed \_\_\_\_\_ and assigned Application Serial No. \_\_\_\_\_ or ☒ is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate or § 365(a) of any PCT international application(s), designating at least one country other than the United States, listed below and have also identified below any foreign application(s) for patent or inventor's certificate, or any PCT international application(s) having a filing date before that of the application(s) of which priority is claimed:

Country	Application Number	Date of Filing	Priority Claimed Under 35 U.S.C. 119
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Number	Date of Filing
60/456,815	March 21, 2003

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT international application(s) designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

MAR-09-2004 17:53

BBN TECHNOLOGIES

617 873 5386

P.05

Page 2 of 3

Combined Declaration and Power of Attorney  
Attorney's Docket No. 03-4019

U.S. Applications		Status (Check One)		
U.S. Application Number	U.S. Filing Date	Patented	Pending	Abandoned

PCT Applications Designating the U.S.					
PCT Application No.	PCT Filing Date	U.S. Serial Number Assigned (if any)			

I hereby appoint the following attorney and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Leonard C. Suchyta, Registration No. 25,707; Adam T. Bernstein, Registration No. 36,746; and Joel Wall, Registration No. 25,648.

Please address all correspondence to:  
Verizon Corporate Services Group Inc.  
600 Hidden Ridge Drive  
Mail Code: HQE03H14  
Irving, Texas 75038  
Telephone No. (972) 718-4800

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

MAR-09-2004 17:53

BBN TECHNOLOGIES

617 873 5386

P.06

Page 3 of 3

Combined Declaration and Power of Attorney  
Attorney's Docket No. 03-4019

Full Name of First Inventor	Inventor's Signature	Date
David Spencer Pearson	David S. Pearson	3/9/2004
Residence	Country of Citizenship	
Bennington, Vermont	USA	
Post Office Address		
Shadowbrook Farm, 1601 Monument Avenue, Bennington, VT 05201		

Full Name of Second Inventor	Inventor's Signature	Date
Brig Barnum Elliott		
Residence	Country of Citizenship	
Arlington, Massachusetts	USA	
Post Office Address		
25 Wollaston Avenue, Arlington, MA 02476		